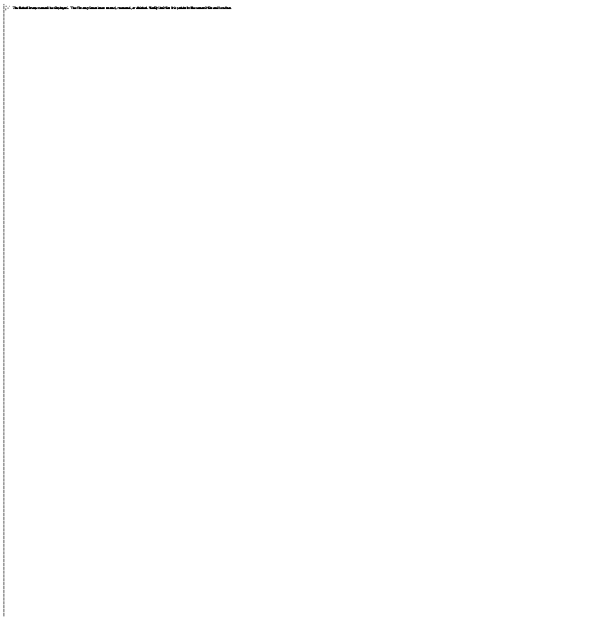


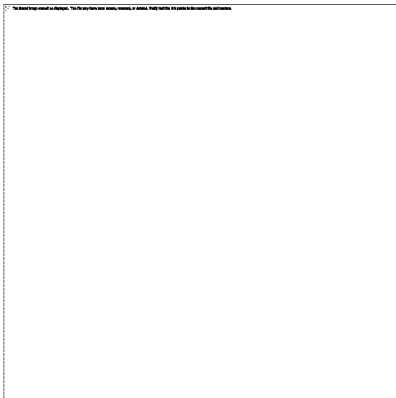
Message

From: Future Markets, Inc. [info@futuremarketsinc.com]
Sent: 3/16/2020 2:29:55 PM
To: Bahadori, Tina [Bahadori.Tina@epa.gov]
Subject: The Global Market for Antimicrobial, Antiviral, and Antifungal Nanocoatings 2020

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The Global Market for Antimicrobial, Antiviral, and Antifungal Nanocoatings 2020



The Global Market for Antimicrobial, Antiviral, and Antifungal Nanocoatings 2020

Published: March 16 2020

Content: 232 pages, 72 tables, 82 figures

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Nanocoatings can demonstrate up to 99.9998% effectiveness against bacteria, formaldehyde, mold and viruses and are up to 1000 times more efficient than previous technologies available on the market.

Their use makes it possible to provide enhanced antiviral, antibacterial, mold-reducing and TVOC degrading processes, are non-toxic and environmentally friendly, allowing for exceptional hygiene standards in all areas of work and life. As a result, it is possible create a healthier living and working environment and to offer holistic solutions to people with a diminished immune system.

Antimicrobial, Antiviral, and Antifungal Nanocoatings are available in various material compositions, for indoor and outdoor applications, to protect against corrosion and mildew, as well as for water and air purification. Nanocoatings also reduce surface contamination, are self-cleaning, water-repellent and odor-inhibiting, reducing cleaning and maintenance

Antimicrobial, Antiviral, and Antifungal Nanocoatings can be applied by spraying or dipping and adhere to various surfaces such as glass, metals and various alloys, copper and stainless steel, marble and stone slabs, ceramics and tiles, textiles and plastics. Nanoparticles of different materials such as metal nanoparticles, carbon nanotubes, metal oxide nanoparticles, and graphene-based materials have demonstrated enhanced anti-microbial activity. The use of inorganic nanomaterials when compared with organic anti-microbial agents is also desirable due to their stability, robustness, and long shelf life. At high temperatures/pressures organic antimicrobial materials are found to be less stable compared to inorganic antimicrobial agents. The various antimicrobial mechanisms of nanomaterials are mostly attributed to their high specific surface area-to-volume ratios, and their distinctive physico-chemical properties.

Report contents include:

- Size in value for the Antimicrobial, Antiviral, and Antifungal Nanocoatings market, and growth rate during the forecast period, 2017-2030. Historical figures are also provided, from 2010.
- Antimicrobial, Antiviral, and Antifungal Nanocoatings market segments analysis.
- Size in value for the End-user industries for nanocoatings and growth during the forecast period.
- Market drivers, trends and challenges, by end user markets.
- Market outlook for 2020.

- In-depth market assessment of opportunities for nanocoatings, by type and markets.
- Antimicrobial, Antiviral, and Antifungal Nanocoatings applications.
- Over 90 company profiles including products and target markets.

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Cellulose Nanofibers Market in Japan 2020

Markets, Producers, Applications and Products

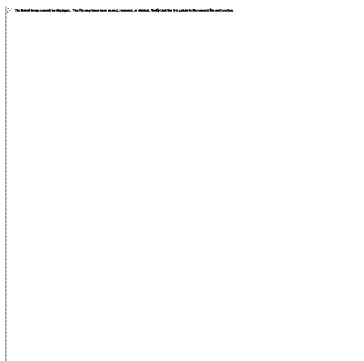
Strong government and industry funding has given Japan the world's largest cellulose nanofibers (CNF) "industry" with commercial production facilities operating across the country. Also, ambitious national targets for reducing CO2 emissions make nanocellulose particularly attractive for product development. Japan is by far the largest producer and consumer of CNF products. CNF research and development started in Japan around 2000, and more than 50 companies are seriously developing their manufacturing technologies and applications. Additional companies are also involved in government projects.

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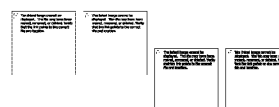
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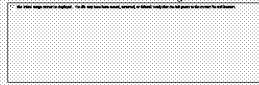


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